Attorn y Docket N .: 38464-0004

DECLARATION AND POWER OF ATTORNEY

#3

As a below named inventor, I HEREBY DECLARE:

THAT my residence, post office address, and citizenship are as stated below next to my name;

THAT I believe I am an original, first, and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Regulator Gene and System Useful for the Diagnosis and Therapy of Osteoporosis

the specification of which:

is attached hereto.

x was filed on August 17, 2001 as U.S. Serial No. <u>09/931,375</u>

THAT I do not know and do not believe that the same invention was ever known or used by others in the United States of America, or was patented or described in any printed publication in any country, before we invented it;

THAT I do not know and do not believe that the same invention was patented or described in any printed publication in any country, or in public use or on sale in the United States of America, for more than one year prior to the filling date of this United States application;

THAT I do not know and do not believe that the same invention was first patented or made the subject of an inventor's certificate that issued in any country foreign to the United States of America before the filing date of this United States application if the foreign application was filed by me us, or by our legal representatives or assigns, more than twelve months prior to the filing date of this United States application;

THAT I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above;

THAT I believe that the above-identified specification contains a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention, and sets forth the best mode contemplated by me of carrying out the invention; and

THAT I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.



Att rney D ck t N .: 38464-0004

Prior F reign Application Number	Country	Foreign Filing Date	Priority Claimed?	Certified Copy Attached?
			 	
1			<u> </u>	

I HEREBY CLAIM the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date	
60/304,851	July 13, 2001	
60/226,119	August 18, 2000	
60/234,337	September 22, 2000	

I HEREBY CLAIM the benefit under Title 35, United States Code, §120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Application Number	Parent Filing Date	Parent Patent Number
	:		

I HEREBY APPOINT the following registered attorneys and agents of the law firm of Heller Ehrman White & McAuliffe to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, and to transact all business in the United States Patent and Trademark Office connected therewith:

PAUL BOOTH	Reg. No.	40.244
PATRICIA D. GRANADOS	Reg. No.	33,683
JOHN P. ISACSON	Reg. No.	33,715
RONALD J. KAMIS	Reg. No.	41,104
MARVIN A. MOTSENBOCKER	Reg. No.	36,614
COLIN G. SANDERCOCK	Reg. No.	31,298
SUSAN E. SHAW MCBEE	Reg. No.	39,294
SUSAN E. SHAW MUDEE		•

IJī



Att mey D cket N .: 38464-0004

and I request that all correspondence b directed to:

HELLER EHRMAN WHITE & MCAULIFFE 1666 K Street, NW, Suite 300 Washington, DC 20006

Telephone:

(202) 912-2000

Facsimile:

(202) 912-2020

I UNDERSTAND AND AGREE THAT the foregoing attorneys and agents appointed by me to prosecute this application do not personally represent me or my legal interests, but instead represent the interests of the legal owner(s) of the invention described in this application.

I FURTHER DECLARE THAT all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Name of first inventor	Matthew L. WARMAN	
Residence	Shaker Heights, Ohio 44122	
Citizenship	U.S.A.	
Post Office Address	22026 Calverton Road, Shaker Heights, Ohio 44122	
inventor's signature	Matthey C. Warmen	
Date	1/17/02	
·		
Name of second inventor	Yaoqin GONG	
Residence		
Citizenship	U.S.A.	
Citizenship Post Office Address	c/o Shandong Medical University	
·		
Post Office Address	c/o Shandong Medical University	



Name of third inventor	Bjorn R. OLSEN
Residence	Milton, Massachusetts
Citizenship	U.S.A.
Post Office Address	1053 Brush Hill Road, Milton, MA
Inventor's signature	
Date	
Name of fourth inventor	Georges RAWADI
Residence	Paris, France
Citizenship	French
Post Office Address	4 Rue de Louvois, 75002 Paris, France
Inventor's signature	
Date	
Name of fifth inventor	Sergio ROMAN-ROMAN
Residence	Paris, France
Citizenship	Spain
Post Office Address	22 Rue Wurtz, 75013 Paris, France
Inventor's signature	
Date	





DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I HEREBY DECLARE:

THAT my residence, post office address, and citizenship are as stated below next to my name;

THAT I believe I am an original, first, and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Regulator Gene and System Useful for the Diagnosis and Therapy of Osteoporosis

the specification of which:

is attached hereto.

X was filed on August 17, 2001 as U.S. Serial No. 09/931.375

THAT I do not know and do not believe that the same invention was ever known or used by others in the United States of America, or was patented or described in any printed publication in any country,

THAT I do not know and do not believe that the same invention was patented or described in any printed publication in any country, or in public use or on sale in the United States of America, for more than one year prior to the filing date of this United States application;

THAT I do not know and do not believe that the same invention was first patented or made the subject of an inventor's certificate that issued in any country foreign to the United States of America before the filling date of this United States application if the foreign application was filed by me us, or by our legal application;

THAT I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above;

THAT I believe that the above-identified specification contains a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention, and sets forth the best mode contemplated by me of carrying out the invention; and

THAT I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is

Page 1 of 4



Prior Foreign Application Number	Country	Foreign Filing Date	Priority Claimed?	Certified Copy Attached?

I HEREBY CLAIM the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date
60/304,851	July 13, 2001
60/226,119	August 18, 2000
60/234,337	September 22, 2000

I HEREBY CLAIM the benefit under Title 35, United States Code, §120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Application Number	Parent Filing Date	Parent Patent Number

I HEREBY APPOINT the following registered attorneys and agents of the law firm of Heller Ehrman White & McAuliffe to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, and to transact all business in the United States Patent and Trademark Office connected therewith:

PAUL BOOTH	Reg. No.	40.244
PATRICIA D. GRANADOS	Reg. No.	33,683
JOHN P. ISACSON	Reg. No.	33,715
RONALD J. KAMIS	Reg. No.	41,104
MARVIN A. MOTSENBOCKER	Reg. No.	36,614
COLIN G. SANDERCOCK	Reg. No.	31,298
SUSAN E. SHAW MCBEE	Reg. No.	39,294



and I request that all correspondence be directed to:

HELLER EHRMAN WHITE & MCAULIFFE 1666 K Street, NW, Suite 300 Washington, DC 20006 Telephone: (202) 912-2000 Facsimile: (202) 912-2020

I UNDERSTAND AND AGREE THAT the foregoing attorneys and agents appointed by me to prosecute this application do not personally represent me or my legal interests, but instead represent the interests of the legal owner(s) of the invention described in this application.

I FURTHER DECLARE THAT all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

	• (
Name of first inventor	Matthew L. WARMAN	:
Residence	Shaker Heights, Ohio 44122	
Citizenship	U.S.A.	
Post Office Address	22026 Calverton Road, Shaker Heig	hts. Ohio 44122
Inventor's signature		14122
Date		
Name of second inventor	Yaoqin GONG	:
Residence	Jinan, Shandong, P.R.China	
Citizenship	Peoples Republic of China	
Post Office Address	c/o Shandong Medical University	
Inventor's signature	Jinan, Shandong, 250012, Peoples Ri	epublic of China
Date	1/4/02	



Name of third inventor	Bjorn R. OLSEN
Residence	Milton, Massachusetts
Citizenship	U.S.A.
Post Office Address	1053 Brush Hill Road, Milton, MA
Inventor's signature	The state of the s
Date	·
Name of fourth inventor	Georges RAWADI
Residence	Paris, France
Citizenship	French
Post Office Address	4 Rue de Louvois, 75002 Paris, France
Inventor's signature	- Indiana in the second in the
Date	
Name of fifth inventor	Sergio ROMAN-ROMAN
Residence	Paris, France
Citizenship	Spain
Post Office Address	22 Rue Wurtz, 75013 Paris, France
Inventor's signature	
Date	



DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I HEREBY DECLARE:

THAT my residence, post office address, and citizenship are as stated below next to my name;

THAT I believe I am an original, first, and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Regulator Gene and System Useful for the Diagnosis and Therapy of Osteoporosis the specification of which: ____ is attached hereto.

X was filed on August 17, 2001 as U.S. Serial No. 09/931,375

THAT I do not know and do not believe that the same invention was ever known or used by others in the United States of America, or was patented or described in any printed publication in any country, before we invented it;

THAT I do not know and do not believe that the same invention was patented or described in any printed publication in any country, or in public use or on sale in the United States of America, for more than one year prior to the filing date of this United States application:

THAT I do not know and do not believe that the same invention was first patented or made the subject of an inventor's certificate that issued in any country foreign to the United States of America before the filing date of this United States application if the foreign application was filed by me us, or by our legal representatives or assigns, more than twelve months prior to the filing date of this United States application;

THAT I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above;

THAT I believe that the above-identified specification contains a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention, and sets forth the best mode contemplated by me of carrying out the invention; and

THAT I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.



Prior Foreign Application Number	Country	Foreign Filing Date	Priority Claimed?	Certified Copy Attached?
·				

I HEREBY CLAIM the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date
60/304,851	July 13, 2001
60/226,119	August 18, 2000
60/234,337	September 22, 2000

I HEREBY CLAIM the benefit under Title 35, United States Code, §120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Application Number	Parent Filing Date	Parent Patent Number

I HEREBY APPOINT the following registered attorneys and agents of the law firm of **Heller Ehrman White & McAuliffe** to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, and to transact all business in the United States Patent and Trademark Office connected therewith:

PAUL BOOTH	Reg. No.	40.244
PATRICIA D. GRANADOS	Reg. No.	33,683
JOHN P. ISACSON	Reg. No.	33,715
RONALD J. KAMIS	Reg. No.	41,104
MARVIN A. MOTSENBOCKER	Reg. No.	36,614
COLIN G. SANDERCOCK	Reg. No.	31,298
SUSAN E. SHAW MCBEE	Reg. No.	39,294



and I request that all correspondence be directed to:

HELLER EHRMAN WHITE & MCAULIFFE 1666 K Street, NW, Suite 300 Washington, DC 20006 Telephone: (202) 912-2000

Facsimile: (202) 912-2020

I UNDERSTAND AND AGREE THAT the foregoing attorneys and agents appointed by me to prosecute this application do not personally represent me or my legal interests, but instead represent the interests of the legal owner(s) of the invention described in this application.

I FURTHER DECLARE THAT all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Name of first inventor	Matthew L. WARMAN
Residence	Shaker Heights, Ohio 44122
Citizenship	U.S.A.
Post Office Address	22026 Calverton Road, Shaker Heights, Ohio 44122
Inventor's signature	
Date	
Name of second inventor	Yaoqin GONG
Name of second inventor Residence	Yaoqin GONG
	Yaoqin GONG U.S.A.
Residence	
Residence Citizenship	U.S.A. c/o Shandong Medical University
Residence Citizenship Post Office Address	U.S.A. c/o Shandong Medical University



Name of third inventor	Bjorn R. OLSEN
Residence	Milton, Massachusetts
Citizenship	U.S.A.
Post Office Address	1053/B) ush Hill Road, Million, MA 02186
Inventor's signature	San Li Ma
Date	1-22-02
Name of fourth inventor	Georges RAWADI
Residence	Paris, France
Citizenship	French
Post Office Address	4 Rue de Louvois, 75002 Paris, France
Inventor's signature	
Date	
Name of fifth inventor	Sergio ROMAN-ROMAN
Residence	Paris, France
Citizenship	Spain
Post Office Address	22 Rue Wurtz, 75013 Paris, France
Inventor's signature	
Date	



DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I HEREBY DECLARE:

THAT my residence, post office address, and citizenship are as stated below next to my name;

THAT I believe I am an original, first, and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Regulator Gene and System Useful for the Diagnosis and Therapy of Osteoporosis

th specification of which:

Ø

<u></u>

Ξ

IJ

is attached hereto.

X was filed on August 17, 2001 as U.S. Serial No. 09/931,375

THAT I do not know and do not believe that the same invention was ever known or used by others in the United States of America, or was patented or described in any printed publication in any country, before we invented it;

THAT I do not know and do not believe that the same invention was patented or described in any printed publication in any country, or in public use or on sale in the United States of America, for more than one year prior to the filing date of this United States application;

THAT I do not know and do not believe that the same invention was first patented or made the subject of an inventor's certificate that issued in any country foreign to the United States of America before the filing date of this United States application if the foreign application was filed by me us, or by our legal representatives or assigns, more than twelve months prior to the filing date of this United States application;

THAT I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above;

THAT I believe that the above-identified specification contains a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention, and sets forth the best mode contemplated by me of carrying out the invention; and

THAT I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, instead below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.

Page 1 of 4

'n



Att mey D cket No.: 38464-0004

Prior Foreign Application Number	Country	Foreign Filing Date	Priority Claimed?	Certified Copy Attached?

I HEREBY CLAIM the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date
60/304,851	July 13, 2001
60/226,119	August 18, 2000
60/234,337	September 22, 2000

I HEREBY CLAIM the benefit under Title 35, United States Code, §120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

		PCT Parent	Parent	Parent
Ų i	U.S. Parent Application Number	Application Number	Filling Date	Patent Number
= !				
,				
=				

I HEREBY APPOINT the following registered attorneys and agents of the law firm of Heller Ehrman White & McAuliffe to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, and to transact all business in the United States Patent and Trademark Office connected therewith:

SAME BOOTH	Reg. No.	40.244
PAUL BOOTH	Reg. No.	33,683
PATRICIA D. GRANADOS	Reg. No.	33,715
JOHN P. ISACSON	Reg. No.	41,104
RONALD J. KAMIS	Reg. No.	36,614
MARVIN A. MOTSENBOCKER	Reg. No.	31,298
COLIN G. SANDERCOCK	Reg. No.	39,294
SUSAN F. SHAW MCBEE	iteg	



and I request that all correspondence be directed to:

HELLER EHRMAN WHITE & MCAULIFFE 1666 K Street, NW, Suite 300 Washington, DC 20006

Telephone: (202) 912-2000 Facsimile: (202) 912-2020

I UNDERSTAND AND AGREE THAT the foregoing attorneys and agents appointed by me to prosecute this application do not personally represent me or my legal interests, but instead represent the interests of the legal owner(s) of the invention described in this application.

I FURTHER DECLARE THAT all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Name of first inventor	Matthew L. WARMAN
Residence	Shaker Heights, Ohio 44122
ല 	U.\$.A.
Post Office Address	22026 Calverton Road, Shaker Heights, Ohio 44122
텔 Inventor's signature	
ພj Date	
اَيْخ الآآ Name of second inventor	Yaoqin GONG
Residence	
E Citizenship	U.S.A.
☐ Post Office Address☐ ☐ Inventor's signature	c/o Shandong Medical University Jinan, Shandong, 250012, Peoples Republic of China
□ ਜ਼ੵ Inventor's signature	
Date	



Name of third inventor	Bjorn R. OLSEN	
Residence	Milton, Massachusetts	
Citizenship	U.S.A.	
Post Office Address	1053 Brush Hill Road, Milton, MA	
Inventor's signature		
Date		
Name of fourth inventor	Georges RAWADI	
Residence	Paris, France	
Citizenship	French	
Post Office Address	4 Rue de Louvois, 75002 Paris, France	
Inventor's signature	Charles	
Date	20/11/2001	
Name of fifth inventor	Sergio ROMAN-ROMAN	
Residence	Paris, France	
Citizenship	Spain	
Post Office Address	22 Rue Wurtz, 75013 Paris, France	
Inventor's signature	Turas	
Data	20/11/2001	

Page 4 of 4